

2671  
6/14/04

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

	Application Number	09/922,299	
	Filing Date	August 3, 2001	
	First Named Inventor	Adityo Prakash	
	Art Unit	2671	
	Examiner Name	Jankus, Almis R.	
Total Number of Pages in This Submission	8	Attorney Docket Number	10006.002410

### ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Reply  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>Submission of Revocation of Power of Attorney and Appointment of New Power of Attorney; Statement Under 37 CFR 3.73(b); Assignment of U.S. Patents and Patent Applications (copy/signed); Return receipt postcard</b>
<div>Remarks</div> <div><b>RECEIVED</b> MAY 24 2004 Technology Center 2600</div>		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

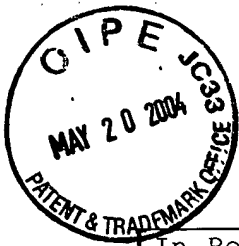
Firm or Individual name	James K. Okamoto, Reg No. 40,110 OKAMOTO & BENEDICTO LLP
Signature	
Date	May 17, 2004

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	James K. Okamoto		
Signature		Date	May 17, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of:  Adityo Prakash, et al.  Serial No.: 09/922,299  Filed: August 3, 2001  Title: Method of determining relative Z-ordering in an image and method of using same	Examiner: Jankus, Almis R  Art Unit: 2671  Atty. Docket No.: 10006.002410
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**SUBMISSION OF REVOCATION OF POWER OF ATTORNEY and APPOINTMENT**  
**OF NEW POWER OF ATTORNEY**

Sir:

Applicant hereby submits the following:

- ☒ An original signed Revocation of Power of Attorney and Appointment of New Power of Attorney;
- ☒ Statement Under 37 CFR 3.73(b); and
- ☒ Copy of Assignment of U.S. Patents and Patent Applications (3 sheets)

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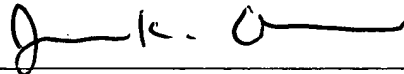
If the Examiner has any questions or needs additional information, the Examiner is invited to contact the undersigned attorney.

Respectfully submitted,

Adityo Prakash, et al.

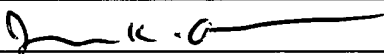
Dated: May 17, 2004

By:



James K. Okamoto, Reg No. 40,110  
Attorney For Applicant(s)  
OKAMOTO & BENEDICTO LLP  
P.O. Box 641330  
San Jose, California 95164  
(408) 436-2110  
(408) 436-2114 (FAX)

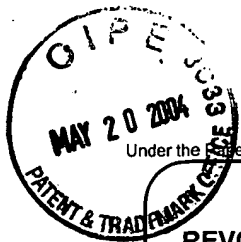
Enclosure(s)

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Signature:			
Typed or Printed Name:	James K. Okamoto	Dated:	May 17, 2004
Express Mail Mailing Number (optional):			

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**REVOCATION OF POWER OF  
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NEW POWER OF ATTORNEY**

Application Number	09/922,299
Filing Date	August 3, 2001
First Named Inventor	Adityo Prakash
Art Unit	2671
Examiner Name	Jankus, Almis R.
Attorney Docket Number	10006.002410

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☐ A Power of Attorney or Authorization of Agent is submitted herewith.**OR**☒ I hereby appoint the practitioners at Customer Number :

000031894

☒ Please change the correspondence address for the above-identified application to:☒ The address associated with  
Customer Number:

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**OR**☐ Firm or  
Individual Name

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I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Name	Henry Ohab, Patent Counsel, PTS Corporation		
Signature			
Date	5/3/04	Telephone	(408) 544-7674

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒ \*Total of 1 form is submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Adityo Prakash, Eniko Fodor, Edward Ratner, and David CookApplication No./Patent No.: 09/922,299Filed/Issue Date: August 3, 2001Entitled: Method of determining relative Z-ordering in an image and method of using samePTS Corporationa corporation (incorporated in Delaware)

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Adityo Prakash, Eniko Fodor, Edward Ratner, and David CookTo: Pulsent Corporation

The document was recorded in the United States Patent and Trademark Office at Reel 012497, Frame 0238, or for which a copy thereof is attached.

2. From: Pulsent CorporationTo: PTS Corporation

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_

To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

5/3/04

Date

408-544-7674

Telephone Number

Henry Ohab

Typed or printed name

Henry Ohab

Signature

Patent Counsel, PTS Corporation

Title

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**ASSIGNMENT OF U.S. PATENTS AND PATENT APPLICATIONS**

Pursuant to the order filed August 7, 2003 in *In re Pulsent Corporation*, United States Bankruptcy Court, Northern District of California, Case No. 03-43229 JD (the "Case"); for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lois I. Brady, as duly appointed chapter 7 trustee of Pulsent Corporation (aka Signagenics Laboratories) ("Assignor"), a California corporation formerly having a place of business at 1455 McCarthy Boulevard, Milpitas, California 95035, U.S.A., assigns and transfers to PTS Corporation ("Assignee"), a Delaware corporation having a place of business at 101 Innovation Drive, San Jose, California 95134, U.S.A., and the Assignee's legal representatives, successors and assigns, pursuant to the terms of a concurrently executed Asset Purchase Agreement, any and all of the right, title and interest of Pulsent Corporation to those patents and applications identified as such in Exhibit A hereto, including (i) all U.S. and foreign patents and patent applications that claim priority to such identified patents and applications and all U.S. and foreign patents and applications to which such identified patents and applications relate or claim priority, and (ii) any provisionals, continuations, continuations-in-part, divisions, reissue applications, extensions, Patent Cooperation Treaty applications, or derivatives of any of the foregoing, both foreign and domestic (the "Intellectual Property") and does hereby authorize and request the Commissioner of Patents or equivalent official to issue patents in the United States or any other applicable jurisdiction to the above-mentioned Assignee agreeably with the terms of this assignment document.

**ASSIGNOR HEREBY AUTHORIZES** the Assignee to insert in Exhibit A to this assignment document the filing date and application number of any application if the date and number are unavailable at the time this document is executed.

**UPON SAID CONSIDERATION**, Assignor conveys to the Assignee the right to make application in its own behalf for protection of the Intellectual Property in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications.

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IN WITNESS WHEREOF, Assignor has set her hand on the date shown below.

Date April 27 2004

Signature Lois I Brady  
Lois I Brady

Chapter 7 Trustee  
Title

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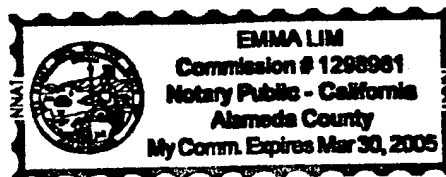
STATE OF California } S.S.  
COUNTY OF Alameda }

On this 27<sup>th</sup> day of April, 2004, before me, a Notary Public in and for said county, appeared Lois I. Brady, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

[Signature]  
Notary Public

{SEAL}

My Commission Expires: 3-30-05





# Assignment of U.S. Patents and Patent Applications

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MAY 24 2004

## Exhibit A

Technology Center 2600

Okamoto & Benedicto Docket No.	Application No. Patent No.	Filing Date Issue Date (Mo/Day/Yr)	Title
6.2000	App. No. 09/550,705 Pat. No. 6,600,786	Filed 4/17/00 Issued 7/29/03	Method and Apparatus for Efficient Video Processing
6.2001	App. No. 10/613,514	Filed 7/3/03	Method and Apparatus for Efficient Video Processing
6.2010	App. No. 10/105,047	Filed 3/20/02	Segmenting encoding system with image segmentation performed at a decoder and encoding scheme for generating encoded data relying on decoder segmentation
6.2020	App. No. 10/105,055	Filed 3/20/02	Decoder for Decoding Segment-Based Encoding of Video Data Using Segmentation Performed at a Decoder
6.2030	App. No. 10/105,045	Filed 3/20/02	Segmenting encoding system encoding video data using segment-by-segment kinetic data including change information in addition to translation information
6.2040	App. No. 10/338,794	Filed 1/7/03	Segment-based encoding system using segment hierarchies
6.2050	App. No. 10/338,793	Filed 1/7/03	Encoding system using motion vectors to represent frame-to-frame changes, including motion vector grouping for coding or processing
6.2060	App. No. 10/338,089	Filed 1/6/03	Encoding system using motion vectors to represent frame-to-frame changes, wherein a decoder uses predictions of motion vectors in decoding
6.2070	App. No. 10/328,727	Filed 12/23/02	Segment-based encoding system using exposed area filling performed by an encoder and a decoder
6.2080	App. No. 10/338,087	Filed 1/6/03	Segment-based encoding system using residue coding by basis function coefficients
6.2090	App. No. 10/338,086	Filed 1/6/03	Segment-based encoding system including segment-specific metadata
6.2200	App. No. 60/139,134	Filed 6/11/99	Method and Apparatus for Digital Image Segmentation
6.2210	App. No. 09/591,438	Filed 6/9/00	Method and Apparatus for Digital Image Segmentation
6.2300	App. No. 09/912,743 Pat. No. 6,584,213	Filed 7/23/01 Issued 6/24/03	Motion Matching Method
6.2400	App. No. 60/223,057	Filed 8/4/00	Method of determining relative Z-ordering in an image and method of using same
6.2410	App. No. 09/922,299	Filed 8/3/01	Method of determining relative Z-ordering in an image and method of using same
6.2600	App. No. 60/253,961	Filed 11/29/00	Method and apparatus for combining dedicated and shared networks for efficient data transmission
6.2630	App. No. 09/999,189	Filed 11/29/01	Method and apparatus for combining dedicated and shared networks for efficient data transmission
6.2640	App. No. 09/998,014	Filed 11/29/01	Method and apparatus for a hybrid communication network
6.2700	App. No. 60/224,748	Filed 8/10/00	Multi-tier video delivery network
6.2710	App. No. 09/927,598	Filed 8/9/01	Multi-tier video delivery network
6.2900	App. No. 60/222,834	Filed 8/4/00	Method and apparatus for digital image segmentation using an iterative method
6.2910	App. No. 09/919,671	Filed 7/31/01	Method and apparatus for digital image segmentation using an iterative method